

ANCYLOSTOMES IN ANIMALS IN FREETOWN

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Yorke and Blacklock (1915) found that dogs in Freetown were heavily infected with ancylostomes. The species found were *A. caninum* (Ercolin, 1859) and *A. ceylanicum* (Looss, 1911), which were present in the intestines in about equal numbers.

During April, 1922, a number of dogs collected from various parts of Freetown were examined in the Laboratory. It was noted that in ten young dogs, two to three months old, *A. caninum* was constantly present, but no specimens of *A. ceylanicum* were found. An examination of ten adult dogs showed, however, that *A. ceylanicum* was present in eight and *A. caninum* was present in



FIG. 1. Two specimens of *Ancylostoma caninum* attached to segments of *Dipylidium caninum*.

every case. It was observed that in dogs *A. ceylanicum* occurs in greatest numbers at a higher level of the intestine than *A. caninum*. In one dog examined a specimen of *A. caninum* was found attached to the mucosa of the large intestine, two inches below the caecum.

Three instances of hyper-parasitism were observed in which

A. caninum was found firmly attached to segments of *Dipylidium caninum* (fig. 1).

Six domestic cats, five adults and one kitten, were examined. *A. ceylanicum* was found in the five adults, and of these, three were also infected with *A. caninum*. In one case, specimens of *A. ceylanicum* were found attached to the mucosa of the pylorus. Of three adult specimens of the civet cat, *Viverra civetta*, one was infected with *A. duodenale* and another with *A. ceylanicum*. One genet was examined, and was found to be infected both with *A. caninum* and *A. duodenale*.

Clayton Lane, in India, found that the size of *A. ceylanicum* varied in different hosts. He gives the following measurements:—

Male 5 mm.	...	Female 7 mm.	in the Civet cat
„ 6·8 mm.	...	„ 7 mm.	in the cat
„ 7·2 mm.	...	„ 9·8 mm.	in the dog
„ 8·5 mm.	...	„ 10·5 mm.	in man.

Measurements of *A. ceylanicum*, *A. caninum* and *A. duodenale* in the hosts recorded above gave the following results:—

		Dogs	Cats	Genet	Civet Cat
<i>A. ceylanicum</i>	♂	6·0—8·0 mm.	6·0—8·5 mm.	...	5·2—6·2 mm.
	♀	7·0—10·0 mm.	7·0—11·0 mm.	...	6·2—6·8 mm.
<i>A. caninum</i>	♂	6·5—9·0 mm.	7·0—8·5 mm.	5·3—9·2 mm.	...
	♀	7·5—14·0 mm.	8·0—13·0 mm.	5·3—13·4 mm.	...
<i>A. duodenale</i>	♂	5·5—5·8 mm.	...
	♀	5·8—6·8 mm.	8·0—10·0 mm.

All the females included in the measurements were mature.

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